

Appl. No.: 09/918,617  
Amdt. Dated: 03/29/2004  
Off. Act. Dated: 01/28/2004

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (currently amended): An apparatus for impressing a three-dimensional pattern into a wet concrete wall formed by a slip form, comprising:
  - a—~~an impression roller having an axis of rotation and a resilient~~ an outer periphery impressed with a three-dimensional pattern;
  - b—means for supporting said roller for rotation about said axis with said outer periphery being partially depressed into an exposed surface of the wet concrete emerging from the slip form, said axis of said roller being maintained substantially parallel to the exposed surface; and[[.]]
  - c—means for ~~advancing~~ supporting said roller for advancement along the concrete wall, whereby surface engagement between said outer periphery of said impression roller and the exposed surface of the wet concrete cause said roller to rotate and impress successive portions of the wet concrete with successive portions of said three-dimensional pattern.
2. (currently amended): An apparatus as ~~in claim 1 in which~~ recited in claim 1, wherein said roller is elongated and right-circular cylindrical in configuration.
3. (withdrawn): An apparatus as ~~in claim 1 in which~~ recited in claim 1, wherein said roller is elongated has a two-stage outer periphery, a first stage being right-circular cylindrical in configuration and a second stage being frusto-conical in configuration.
4. (currently amended): An apparatus as ~~in claim 1 in which~~ recited in claim 1, wherein said ~~resilient~~ outer periphery is made from a curable silicon, and in which said

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impression roller includes a rigid inner form having an outer surface, and in which said outer periphery substantially covers said outer surface.

5. (currently amended): An apparatus as ~~in claim 1 in which~~ recited in claim 1, wherein said means for supporting said roller for rotation comprises upper and lower arms rotatably attached to a respective upper and a respective lower end of said impression roller, said arms extending from said means for ~~advancing~~ supporting said roller for advancement.

6. (currently amended): An apparatus as ~~in claim 1 in which further including~~ recited in claim 1, further comprising means for applying a release agent on the wet concrete~~[[,]]~~ before it comes into contact with said outer periphery.

7. (withdrawn): An apparatus as ~~in claim 6 in which~~ recited in claim 6, wherein said means for applying a release agent comprises a spray bar extending along said outer coating.

8. (currently amended): An apparatus as ~~in claim 1 in which further including~~ recited in claim 1, further comprising means for applying a thin plastic film on the wet concrete before it comes into contact with said outer periphery.

Claims 9-11 (canceled)

12. (currently amended): An apparatus for impressing a three-dimensional pattern into wet concrete formed by a slip form, comprising:

a-an impression roller, said roller having an axis of rotation and an outer periphery, at least a portion of said outer periphery including an outer layer of resilient

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material having an outwardly facing pattern side, impressed with a three-dimensional pattern;

b. means for supporting said roller for rotation about said axis with said outer layer being partially depressed into an exposed surface of the wet concrete just emerging from the slip form, said axis of said roller being substantially parallel to the exposed surface; and [[.]]

c. means for ~~advancing~~ supporting said roller for advancement along the concrete wall, whereby surface engagement between said outer periphery of said impression roller and the exposed surface of the wet concrete cause said roller to rotate and ~~continuously~~ impress successive portions of the exposed surface with said three-dimensional pattern.

13. (currently amended): An apparatus as ~~in claim 12 in which~~ recited in claim 12, wherein said roller is elongated and right-circular cylindrical in configuration.

14. (withdrawn): An apparatus as ~~in claim 12 in which~~ recited in claim 12, wherein said roller is elongated has a two-stage outer periphery, a first stage being right-circular cylindrical in configuration and a second stage being frusto-conical in configuration.

15. (currently amended): An apparatus as ~~in claim 12 in which~~ recited in claim 12, wherein said ~~resilient~~ outer layer is made from a curable silicon, and in which said impression roller includes an rigid inner form having an outer surface, and in which said outer layer substantially covers said outer surface.

16. (currently amended): An apparatus as ~~in claim 12 in which~~ recited in claim 12, wherein said means for supporting said roller for rotation comprises upper and lower arms rotatably attached to a respective upper and a respective lower end of said

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impression roller, said arms extending from said means for ~~moving~~ supporting said roller for advancement.

17. (currently amended): An apparatus as ~~in claim 12 in which further including~~ recited in claim 12, further comprising means for applying a release agent on the wet concrete, before it comes into contact with said outer periphery.

18. (withdrawn): An apparatus as ~~in claim 17 in which~~ recited in claim 17, wherein said means for applying a release agent comprises a spray bar extending along said outer coating.

19. (currently amended): An apparatus as ~~in claim 12 in which further including~~ recited in claim 12, further comprising means for applying a thin plastic film on the wet concrete before it comes into contact with said outer periphery.

Claims 20-22 (canceled)

23. (currently amended): An apparatus for slip-forming a concrete wall and impressing a three-dimensional pattern into an exposed surface of the wall, comprising:

- a. ~~slip form assembly, said slip form assembly including a pair of parallel side wall forms being spaced apart a distance corresponding to a transverse dimension of the concrete wall, said slip form assembly further including a top wall form, said top wall form being perpendicular with respect to said side wall forms and spanning said dimension therebetween;~~
- b. ~~means for continuously introducing concrete into an entry end of said slip form, so that said slip form is substantially full of concrete at all times;~~
- c. ~~means for continuously advancing said slip form in a predetermined direction;~~

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~~d-~~an impression roller having an axis of rotation and an ~~resilient~~ outer periphery impressed with a three-dimensional pattern; and

e.-means for supporting said roller for rotation about said axis with said outer periphery being partially depressed into an exposed surface of the wet concrete emerging from said slip form assembly at a discharge end, said axis of said roller being substantially parallel to the exposed surface; and,

f. ~~means for moving said roller wherein said roller moves~~ at the same speed and in the same direction as the forward advancement of said a slip form assembly, whereby surface engagement between said outer periphery of said impression roller and the exposed surface of the wet concrete cause said roller to rotate and impress successive portions of the concrete with said three-dimensional pattern.

Claim 24 (canceled)

25. (new): An apparatus for impressing a three-dimensional pattern into a wet concrete wall formed by a slip form, comprising:

an impression roller having an axis of rotation and an outer periphery, at least a portion of said outer periphery impressed with a three-dimensional pattern;

upper and lower arms rotatably attached to a respective upper and a respective lower end of said impression roller;

said arms extending from a support frame;

said support frame configured for coupling to a slip form machine;

said arms configured to support said roller for rotation about said axis with said outer periphery being partially depressed into an exposed surface of the wet concrete emerging from said slip form, said axis of said roller being maintained substantially parallel to the exposed surface;

whereby surface engagement between said outer periphery of said impression roller and the exposed surface of the wet concrete cause said roller to rotate and

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impress successive portions of the wet concrete with successive portions of said three-dimensional pattern.

26. (new): An apparatus as recited in claim 25, wherein said outer periphery is made from a curable silicon, and in which said impression roller includes a rigid inner form having an outer surface, and in which said outer periphery substantially covers said outer surface.

27. (new): An apparatus for impressing a three-dimensional pattern into wet concrete formed by a slip form, comprising:

an impression roller having an axis of rotation and an outer periphery, at least a portion of said outer periphery including an outer layer of material having an outwardly facing pattern side, impressed with a three-dimensional pattern;

upper and lower arms rotatably attached to a respective upper and a respective lower end of said impression roller;

said arms extending from a support frame;

said support frame configured for coupling to a slip form machine;

said arms configured to support said roller for rotation about said axis with said outer periphery being partially depressed into an exposed surface of the wet concrete emerging from said slip form, said axis of said roller being maintained substantially parallel to the exposed surface;

whereby surface engagement between said outer periphery of said impression roller and the exposed surface of the wet concrete cause said roller to rotate and impress successive portions of the wet concrete with successive portions of said three-dimensional pattern.

28. (new): An apparatus as recited in claim 27, wherein said outer layer is made from a curable silicon, and in which said impression roller includes an rigid inner form

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having an outer surface, and in which said outer layer substantially covers said outer surface.